Illinois Modified Test Procedure Effective Date: December 1, 2018 Revised Date: February 28, 2019

Standard Method of Test for

Determining the Fracture Potential of Asphalt Mixtures Using the Flexibility Index Test (FIT)

Reference AASHTO TP 124-18

Note: Illinois Modified AASHTO TP 124 replaces all references to ITP 405

N	ote: Illinois Modified AAS	SHTO TP 124 replaces all references to ITP 405.	
AASHTO			
Section	Illinois Modification		
All	Replace all references to	o "FIT" with "I-FIT".	
Sections	•		
Title	Replace the title with:		
111.0		st for Determining the Fracture Potential of Asphalt	
		is Flexibility Index Test (I-FIT)"	
		is thomeway index took (intro)	
2.1	Add reference to II Mod	ified AASHTO R30, Mixture Conditioning of Hot Mix	
2.1	Asphalt (HMA)	med 7 North & 1100, Mixture Sorialioning of Flot Wilx	
	Aspirali (FiviA)		
Figure 1	Change the notch width	critoria to "< 2.25mm"\	
i igure i	Change the notch width criteria to "≤ 2.25mm")		
9.1.1	Ponlaco contonoco 2 4	and 5 with the following:	
9.1.1	Replace sentences 3, 4, and 5 with the following: Cut each disc into two identical halves resulting in four individual semicircular		
		oratory compacted specimens, the air voids shall be	
		vidual, semicircular I-FIT specimen according to T 269.	
		becimen shall be 7.0 \pm 1.0 percent. If the air voids of one	
		outside the 7.0 \pm 1.0 percent range, then the test may be	
		naining three specimens that are within the air void	
		s of more than one of the four test specimens is out of the	
		cation range, then adjustments need to be made and a	
	new gyratory brick needs	s to be compacted and tested.	
Note 4		entences with the following:	
	The height of the gyratory compacted bricks should be 160 \pm 1 mm to achieve a		
		air voids in each individual semicircular test specimen	
		oes not have the capability to compact 160 \pm 1 mm tall	
	gyratory bricks, then two 115 ± 1 mm tall gyratory bricks may be compacted and		
	used instead to replace	each 160 ± 1 mm tall gyratory brick.	
New	Add after Note 4:		
Note 4a	General Guide for Compacting 160 mm Gyro Bricks to Get 7.0 ± 1.0 % Voids in Test Specimens		
	for Both I-FIT and Hamburg		
	NMAS	Approx. Gyro Brick Target Air Voids	
	4.75 mm	≈ 7.0 % to ≈ 7.3 %	
	9.5 mm	≈ 7.3 % to ≈ 7.7 %	
	19.0 mm	≈ 7.5 % to ≈ 7.7 %	
	A change of approximately 40	gm of material results in a change of approximately 0.5 % Air Voids	
	11 Sharing of approximately 40	g	
-			

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9.3	Replace with: Notch Cutting - Cut a notch along the axis of symmetry of each individual semicircular specimen to a depth of 15 ± 1 mm and ≤ 2.25 mm in width (see Figure 1).
9.4	Replace the fourth sentence with: Measure the specimen thickness approximately 19.0 mm (0.75 in) on either side of the notch and on the curved edge directly across from the notch.
9.4 New Note 6	Add at the end of Section 9.4: Note 6 - If testing for the effects of long-term aging (LTA) is to be conducted, the procedure specified in AASHTO R30 should be used.
11.1 Note 6	Re-number previous Note 6 to be Note 7
11.2 Note 7	Re-number previous Note 7 to be Note 8
11.6 New Note 8	Add at the end of Section 11.6: Note 8 – When four individual I-FIT specimens with air voids that are within specification are tested, the Flexibility Index value that is farthest from the average of the four test specimens shall be discarded as an outlier to lower the variability of the average Flexibility Index value that is reported. The test specimen that is discarded as an outlier shall be removed from the calculations of average and COV for peak load, post-peak slope, fracture energy, and Flexibility Index.
11.6 Note 8	Re-number previous Note 8 to be Note 9
11.6 New Note 9	Add at the end of Section 11.6: Note 9 - When three individual I-FIT specimens are tested, all three specimens will be included in the average and COV for peak load, post-peak slope, fracture energy, and flexibility index.
11.6 Note 9	Re-number previous Note 9 to be Note 10

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AASHTO	
Section	Illinois Modification
13.1.7	Delete
13.1.8	Delete
13.1.9	Delete
15.1	Replace with the following: Asphalt mixture; flexibility index; Illinois flexibility index test (I-FIT); fracture energy; semicircular bend (SCB); stiffness; work of fracture.

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